

SDS3018EHP SERIES ~ Shielded SMD Power Inductors

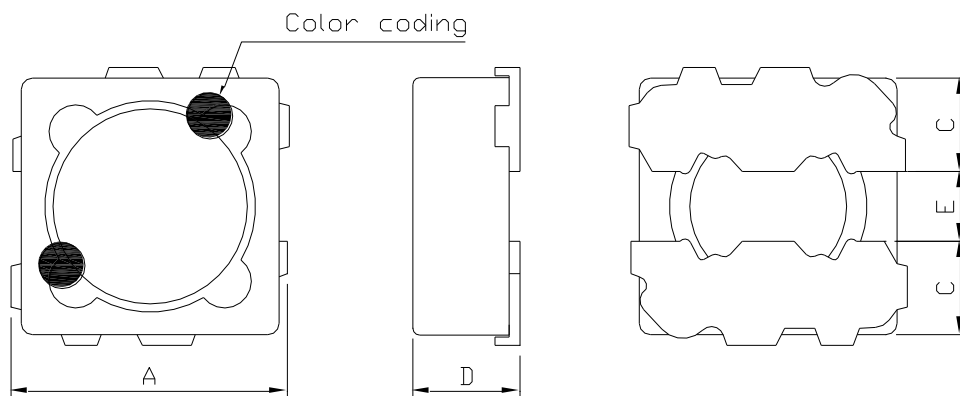


PART NUMBERING SYSTEM

SDS	3018EHP	—	220M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

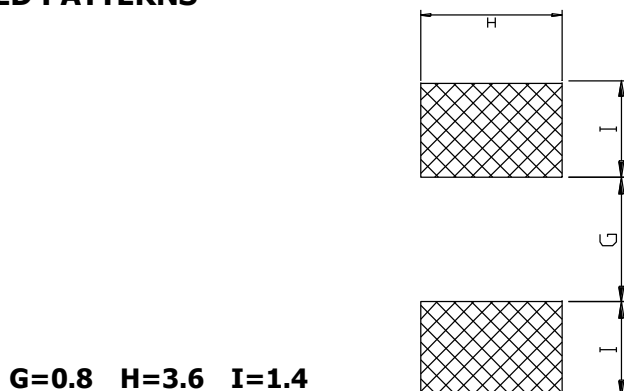
UNIT : mm



A=3.4 Max. B=3.4 Max. C=1.1 Typ. D=1.80 Max. E=0.8 Ref.

RECOMMENDED PATTERNS

UNIT : mm



G=0.8 H=3.6 I=1.4

FEATURES

- Compact, Low profile shielded power inductor – only 1,8 mm high, 3.2 mm square
- Ideal for high-density applications
- Flat bottom surface ensure secure , reliable mounting .
- Handles current up to 3 Amps!
- RoHS-compliant. 260°C compatible.



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	TOLERANCE	DCR (Ω) (Typ.)	Isat (A)	Irms (A) @ 25°C Rise	TEST FREQ. (f)
SDS3018EHP-1R0□-LF	1.0	M,N	0.045	3.00	2.00	1KHz/1V
SDS3018EHP-1R5□-LF	1.5	M,N	0.070	2.40	1.90	1KHz/1V
SDS3018EHP-1R8□-LF	1.8	M,N	0.078	2.30	1.76	1KHz/1V
SDS3018EHP-2R2□-LF	2.2	M,N	0.090	2.14	1.44	1KHz/1V
SDS3018EHP-3R3□-LF	3.3	M,N	0.103	1.80	1.10	1KHz/1V
SDS3018EHP-3R9□-LF	3.9	M,N	0.115	1.78	1.05	1KHz/1V
SDS3018EHP-4R7□-LF	4.7	M,N	0.152	1.60	1.00	1KHz/1V
SDS3018EHP-6R8□-LF	6.8	M,N	0.223	1.40	0.95	1KHz/1V
SDS3018EHP-100□-LF	10	M,N	0.360	1.02	0.78	1KHz/1V
SDS3018EHP-120□-LF	12	M,N	0.410	0.98	0.68	1KHz/1V
SDS3018EHP-150□-LF	15	M,N	0.622	0.90	0.62	1KHz/1V
SDS3018EHP-220□-LF	22	M,N	0.750	0.74	0.45	1KHz/1V
SDS3018EHP-330□-LF	33	M,N	1.125	0.52	0.42	1KHz/1V
SDS3018EHP-470□-LF	47	M,N	1.820	0.43	0.40	1KHz/1V
SDS3018EHP-101□-LF	100	M,N	3.200	0.33	0.30	1KHz/1V

- Inductors tolerance M=±20% ; N=±30%
- Inductance tested at 1KHz, 1 Vrms, 0 Adc using an Agilent/HP 4284A LCR meter or equivalent.
- Isat : DC current at which the inductance drops 35% (typ) from its value without current.
- Irms: Current that causes the specified temperature rise from 25°C ambient.
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C .
- Packing Qty 1,000pcs with 7' reel (178mm)